State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-131 Relating to Certification of New Motor Vehicles

TOYOTA MOTOR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family		splacement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KTY1.6V5FBB4	1.6	(96.8)	Exhaust Gas Recirculation Three-Way Catalyst Heated Oxygen Sensor (Electronic Port Fuel Injection) (On-Board Diagnostics)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)	
0.39	7.0	0.7	

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)	
0.19	9.9	. 0 2	

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standards by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under small volume manufacturers provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.), and with the 2 year/24,000 mile warranty provisions of Health and Safety Code section 43204.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 1st day of September, 1988.

K. D. Drachand, Chief Mobile Source Division

17.11.00 Supplemental data s	neets Sources board supplemental data si	HEET E.O. # A-14
		O Page 1
Manufacturer Toyota Motor Corp	_	•
Evaporative Family EV-E	Engine Type 4 cyl.	in-line
	Liters (CID)l.6	5 (96.8)
ABBREVIATIONS		•
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard Fuel System CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS nV-nVenturi Carburetor VV-Variable Venturi Carburetor	AIP-Air Injection - Pump AIV-Air Injection - Valve EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control (Diesel Only) EM-Engine Modification SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical DBC-Dual Bed Catalyst OC-Oxidation Catalyst TWC-Three-Way Catalyst WUOC-Warm-up Oxidation Catalyst WUTWC-Warm-up Three-Way Catalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor	CFI-Central Fuel Injection or Throttle Body Injection EPFI-Electronic Port Fuel Injection MPFI-Mechanical Port Fuel injection SFI-Sequential Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber TC-Turbocharger SC-Supercharger IC-Intercooler or Aftercooler CCV-Combustion Chamber Valve OBD-On-Board Diagnostics
VEHICLE MODELS :		
]	ICMQFA ICPQFA IJMQFA IJPQFA	
Engine: Front Mid Drive: FWD RWD	Rear 4WD Full time 4WD Pa	rt time

Page : 17.11-17

Issued : 05/26/88

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page _ Passenger Cars x Light-Duty Trucks ___ Medium-Duty Vehicles ___ Gas x Diesel _ Manufacturer Toyota Motor Corporation Engine family KTY1.6V5FBB4 Liter (CID) 1.6 (96.8) Eng. Type 4 cyl. in-line EGR + TWC + HOS (EPFI + OBD) Emission Control Sys. (Special Features) Engine Vehicle Models Trans. Equiv. Ign. System Fuel System EGR Valve Catalyst (If Coded see Test ECU, EI, ESAC EPFI Part No. code attachment) Weight Part No. Part No. Part No. Type (Dyno Hp: Refer [Computer] [Computer] to 08.13.02.00) [Air flow meter] [Injector] 89661-17201 89661-17201 25620-16031 18450-16350 2.750 5 & 6 AWIIL-WCMQFA M5 -WJMQFA 2,875 22250-16040 (B25)*1 23250-16080 7 & 8 **A4** 2,875 89661-17201 AWIIL-WCPQFA

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

22250-16040

23250-16080

Note *1: Parenthetical information represents identifying marks found on production parts

Page : 17.11-18

-WJPQFA

Issued: 05/26/88